



BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

NOTICE OF ACCEPTANCE (NOA)

Metl-Span I, Ltd.
1497 N. Kealy
Lewisville, TX 75057

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: "CFR-30, 36, & 42" Polyurethane Foam w/Galvanized Steel Facings Structural Roof Panel

APPROVAL DOCUMENT: Drawing No. 1234, titled " CFR – 30, 36, & 42 Roof Panel System ", sheets 1 through 3 of 3, prepared by W. W. Schaefer Engineering & Consulting, P.A., dated June 6, 2003, signed & sealed by Warren W. Schaefer, P.E. on April 21, 2004, bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact

LABELING: Each panel shall bear a permanent label with the manufacturer's name or logo, city, state and the following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of this page 1, evidence submitted page(s) and approval document mentioned above.
The submitted documentation was reviewed by **Helmy A. Makar, P.E.**



Helmy A. Makar
04/22/04

NOA No 03-0707.03
Expiration Date: 04/22/2009
Approval Date: 04/22/2004
Page 1

Metl-Span I, Ltd.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

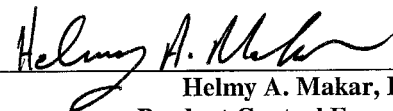
1. *Drawing No. 1234, titled " CFR – 30, 36, & 42 Roof Panel System ", sheets 1 through 3 of 3, prepared by W. W. Schaefer Engineering & Consulting, P.A., dated June 6, 2003, signed & sealed by Warren W. Schaefer, P.E. on April 21, 2004.*

B. TESTS

1. *Test report on wind and wind driven rain resistance test per TAS 100-95 on Metl-Span CFR 30 Roof Panel System by PRI Asphalt Technologies, Report No. MSGI-001-02-01, dated April 11, 2003, signed and sealed by Charles L. Thomas, P.E.*
2. *Test report on Uniform Static Air Pressure Test per ASTM 1592-95 on Metl-Span CFR 42 Roof Panel System, prepared by Hurricane Test Laboratory, Inc., Report No. 0308-0401-03, dated May 21, 2003, signed and sealed by Vinu J. Abreham, P.E.*
3. *Test report on Uniform Static Air Pressure Test per ASTM 1592-95 on Metl-Span CFR 36 Roof Panel System, prepared by Hurricane Test Laboratory, Inc., Report No. 0308-0401-03, dated May 21, 2003, signed and sealed by Vinu J. Abreham, P.E.*
4. *Test report on Uniform Static Air Pressure Test per ASTM 1592-95 on Metl-Span CFR 30 Roof Panel System, prepared by Hurricane Test Laboratory, Inc., Report No. 0308-0401-03, dated May 21, 2003, signed and sealed by Vinu J. Abreham, P.E.*
5. *Test report on Accelerated Weathering Testing of Coating 2000 hours per ASTM G23-81, prepared by The Valspar Corporatio.*
6. *Test report on Salt Spray Testing of Coating 1000 hours per ASTM B117-95, prepared by The Valspar Corporatio.*
7. *Susceptibility to leakage test in accordance with Protocol TAS 114 Appendix G, prepared by PRI Asphalt Technologies, Report No. MSGI-002-02-01, dated April 11, 2003, signed and sealed by Charles L. Thomas, P.E.*

C. CALCULATIONS

1. *Calculations titled " Metal-Span CFR 30, 36, & 42 Roof Panel Calculations " , 13 pages, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E. on July 24, 2003.*
2. *Calculations titled " Metal-Span CFR 30, 36, & 42 Roof Panel Calculations " , 8 pages, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E. on March 24, 2004*



Helmy A. Makar, P. E.
Product Control Examiner
NOA No 03-0707.03
Expiration Date: 04/22/2009
Approval Date: 04/22/2004

Metl-Span I, Ltd.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

D. QUALITY ASSURANCE

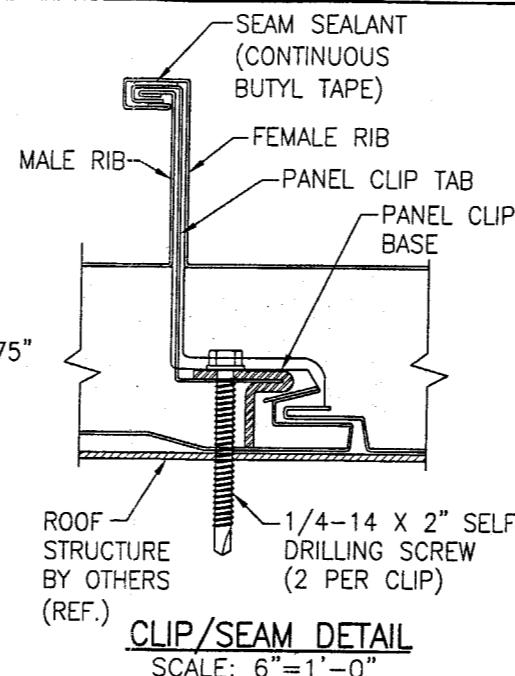
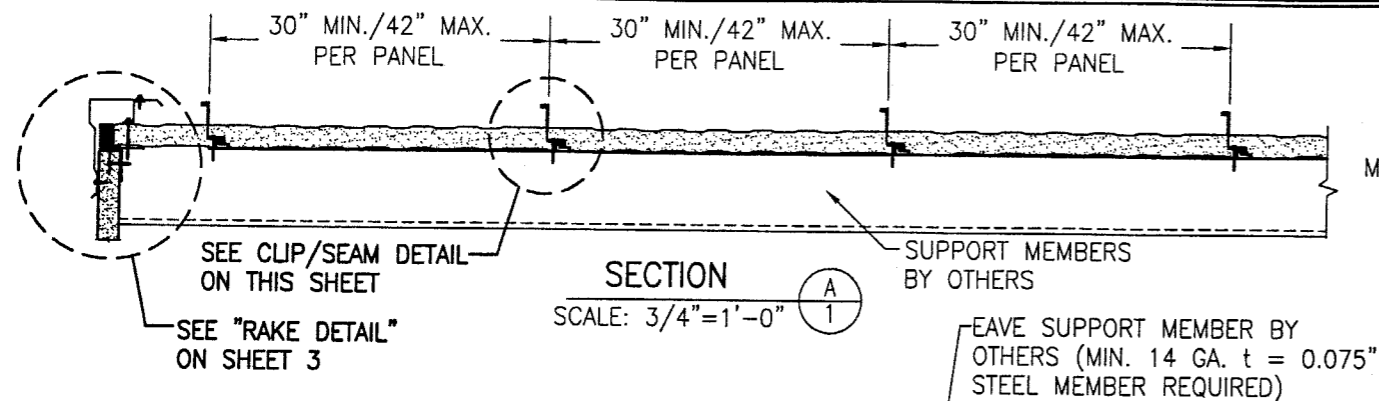
1. *By Miami-Dade County Building Code Compliance Office.*

E. MATERIAL CERTIFICATIONS

1. *Tensile test, report # 3DM-366, dated May 21, 2003, by QC Metallurgical, Inc., signed and sealed by Frank E. Grate, Jr., P.E.*



Helmy A. Makar, P. E.
Product Control Examiner
NOA No 03-0707.03
Expiration Date: 04/22/2009
Approval Date: 04/22/2004



GENERAL NOTES:

- THIS STRUCTURAL ROOF PANEL SYSTEM HAS BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE (F.B.C.).
- ALL ROOF PANELS ARE MAX. 42" WIDE, CONSIST OF ONE 26 GA. ($t = 0.019"$) G-90 INTERIOR STEEL SKIN ($F_y = 50$ KSI) WITH AN EMBOSSED AND PAINTED FINISH BENEATH FACTORY FOAMED IN PLACE POLYURETHANE CORE (2.0 pcf). ABOVE THE FOAM CORE IS A 24 GA. ($t = 0.024"$) G-90 EXTERIOR STEEL SKIN ($F_y = 50$ KSI) WITH AN EMBOSSED AND PAINTED FINISH.
- THE ROOF PANELS SHALL BE INSTALLED OVER ROOF STRUCTURE AS SPECIFIED ON THESE DRAWINGS.
- PANEL END OVERLAPS MUST OCCUR AT CENTERLINE OF SUPPORTING PURLINS PROVIDING THE END LAPS ARE CONSTRUCTED, SUPPORTED & SEALED PER THE END LAP DETAIL ON SHEET 3.
- REQUIRED DESIGN WIND LOADS SHALL BE DETERMINED FOR EACH PROJECT. THIS PANEL SYSTEM MAY NOT BE INSTALLED WHEN THE REQUIRED DESIGN WIND LOADS ARE GREATER THAN THE ALLOWABLE WIND LOADS SPECIFIED ON THIS DRAWING.
- THIS ROOFING PANEL SYSTEM HAS BEEN TESTED IN ACCORDANCE WITH FLORIDA BUILDING CODE:
 - * ACCELERATED TESTING OF COATING PER ASTM G23
 - * SALT SPRAY TESTING PER ASTM B117
 - * UPLIFT RESISTANCE TEST PER TAS-125 & ASTM E1592
 - * WIND DRIVEN RAIN & STANDING WATER TESTS PER TAS-100 & TAS-114
 - * LARGE MISSILE IMPACT TEST PER TAS-201
 - * TENSILE TESTS PER ASTM E8
- ROOF PANEL MANUFACTURER'S PERMANENT LABEL SHALL BE PLACED AT THE END OF EACH PANEL RUN AND SHALL READ:

METL-SPAN I, LTD.
LEWISVILLE, TEXAS
MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED
- ALL SCREWS SHALL BE CORROSION RESISTANT SELF DRILLING SCREWS.
- THE SUPPORTING STRUCTURE, OVER WHICH THE PANELS ARE TO BE INSTALLED, MUST BE MINIMUM 14 GAGE (MIN. 0.075") STEEL WITH MIN. $F_y = 50$ KSI.
- THESE ROOF PANELS SHALL NOT BE CONSIDERED TO OR BE USED FOR TRANSFER OF DIAPHRAM ACTION OF ROOF TO SUPPORTING STRUCTURE.
- MINIMUM ALLOWABLE ROOF SLOPE SHALL BE 1/4" PER 12".

ROOF PANEL (REF. NOTES & PANEL DETAIL)

PURLIN SPACING & LOAD TABLE

PANEL SUPPORT CONDITION	MAXIMUM ALLOWABLE UPLIFT PRESSURE (PSF) FOR PANEL WIDTH = 30"							
	L=18"	L=24"	L=30"	L=36"	L=42"	L=48"	L=54"	L=60"
$\Delta \quad L \quad \Delta$	200.0	200.0	141.3	98.1	72.1	55.2	40.2	29.3
$\Delta \quad L \quad \Delta \quad L \quad \Delta$	161.3	121.0	96.8	80.7	69.1	60.5	53.8	44.2
$\Delta \quad L \quad \Delta \quad L \quad \Delta \quad L \quad \Delta$	183.3	137.5	110.0	91.7	78.6	68.8	61.1	55.0
$\Delta \quad L \quad \Delta \quad L \quad \Delta \quad L \quad \Delta \quad L \quad \Delta$	176.4	132.3	105.8	88.2	75.6	66.1	58.8	51.6
	MAXIMUM ALLOWABLE UPLIFT PRESSURE (PSF) FOR PANEL WIDTH = 36"							
	L=18"	L=24"	L=30"	L=36"	L=42"	L=48"	L=54"	L=60"
$\Delta \quad L \quad \Delta$	200.0	200.0	134.1	93.2	68.4	52.4	38.2	27.8
$\Delta \quad L \quad \Delta \quad L \quad \Delta$	154.0	115.5	92.4	77.0	66.0	57.8	51.3	41.9
$\Delta \quad L \quad \Delta \quad L \quad \Delta \quad L \quad \Delta$	175.0	131.3	105.0	87.5	75.0	65.6	58.3	52.5
$\Delta \quad L \quad \Delta \quad L \quad \Delta \quad L \quad \Delta \quad L \quad \Delta$	168.4	126.3	101.0	84.2	72.2	63.1	56.1	48.9
	MAXIMUM ALLOWABLE UPLIFT PRESSURE (PSF) FOR PANEL WIDTH = 42"							
	L=18"	L=24"	L=30"	L=36"	L=42"	L=48"	L=54"	L=60"
$\Delta \quad L \quad \Delta$	200.0	170.1	108.8	75.6	55.5	42.5	31.0	22.6
$\Delta \quad L \quad \Delta \quad L \quad \Delta$	124.7	93.5	74.8	62.3	53.4	46.8	41.6	34.0
$\Delta \quad L \quad \Delta \quad L \quad \Delta \quad L \quad \Delta$	141.7	106.3	85.0	70.8	60.7	53.1	47.2	42.5
$\Delta \quad L \quad \Delta \quad L \quad \Delta \quad L \quad \Delta \quad L \quad \Delta$	136.3	102.2	81.8	68.1	58.4	51.1	45.4	39.7
	MAXIMUM ALLOWABLE POSITIVE PRESSURE (PSF) FOR PANEL WIDTH = 30", 36" & 42"							
	L=18"	L=24"	L=30"	L=36"	L=42"	L=48"	L=54"	L=60"
$\Delta \quad L \quad \Delta$	200.0	200.0	128.1	89.0	65.4	50.1	36.5	26.6
$\Delta \quad L \quad \Delta \quad L \quad \Delta$	146.7	110.0	88.0	73.3	62.9	55.0	48.9	40.0
$\Delta \quad L \quad \Delta \quad L \quad \Delta \quad L \quad \Delta$	166.7	125.0	100.0	83.3	71.4	62.5	55.6	50.0
$\Delta \quad L \quad \Delta \quad L \quad \Delta \quad L \quad \Delta \quad L \quad \Delta$	160.3	120.3	96.2	80.2	68.7	60.1	53.4	46.8

TYPICAL ROOF PLAN

SCALE: 3/4"=1'-0"

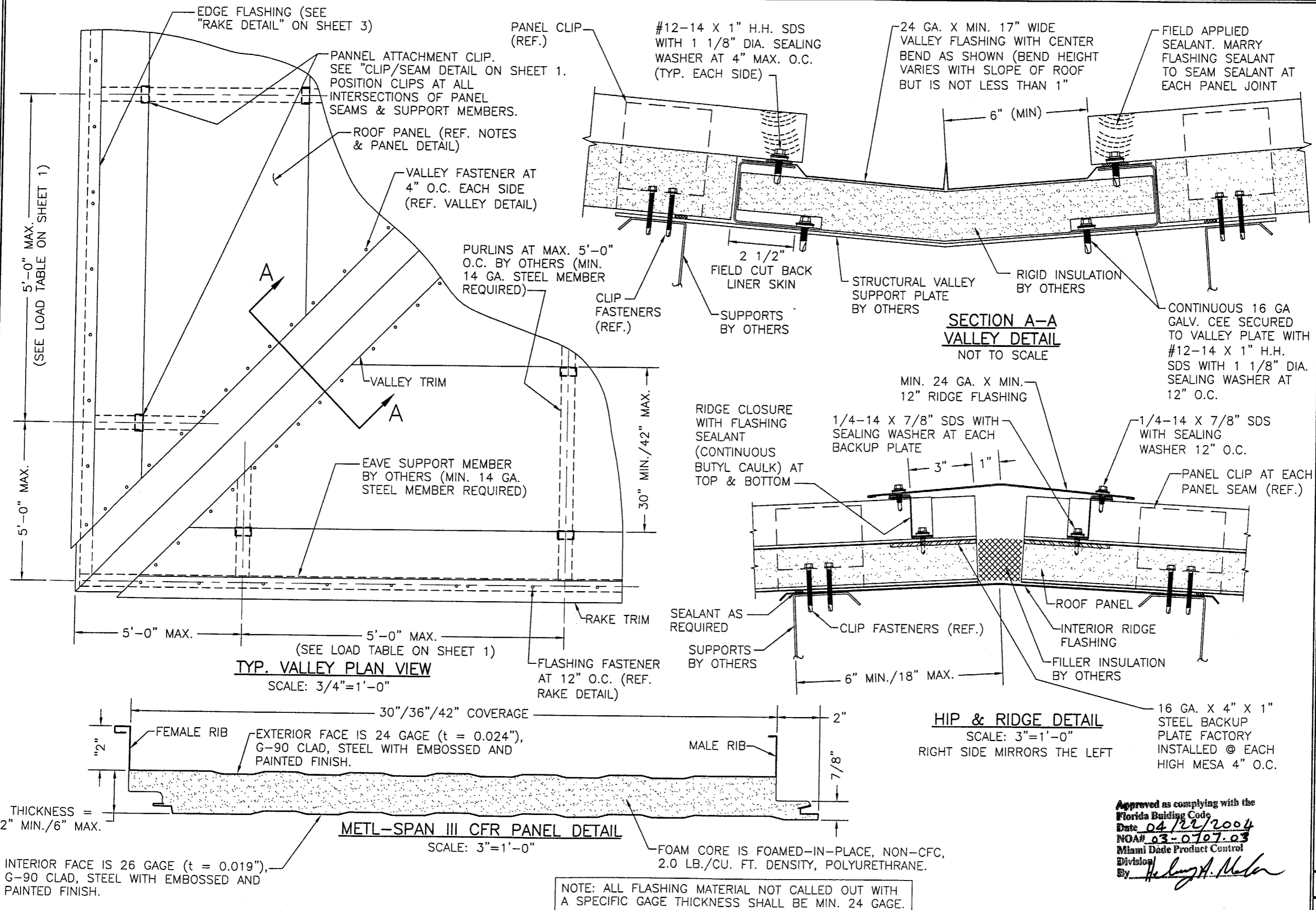
PURLINS AT MAX. 5'-0" O.C. BY OTHERS (MIN. 14 GA. $t = 0.075"$ STEEL MEMBER REQUIRED PER GENERAL NOTE #9)

PRODUCT APPROVAL IS LIMITED TO THE ROOF PANEL & ITS CONNECTING CLIPS. THE STRUCTURAL ADEQUACY OF ALL OTHER STRUCTURAL ITEMS (BEAMS, COLUMNS, PURLINS, FACIA SUPPORTS, CONNECTIONS OF STRUCTURE, ETC.) SHALL BE VERIFIED BY THE STRUCTURAL PLANS EXAMINER OF THE CORRESPONDING BUILDING DEPARTMENT. THE METAL ROOF PANELS SHALL NOT BE DESIGNED TO ACT AS A DIAPHRAGM.

SEE SHEET 2 FOR VALLEY DETAILS

Approved as complying with the
Florida Building Code
Date: 04/22/2004
NOA# 03-0707.03
Miami Dade Product Control
Division
By: *[Signature]*

DRAWN BY: K.P.S.		CHECKED BY: W.W.S.	
PLOT: 1-16		DATE: 06/06/03	
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE CFR-30, 36 & 42 ROOF PANEL SYSTEM		MANUFACTURER METL-SPAN I, LTD. 1497 N. KEALY LEWISVILLE, TX 75057 972-221-6656	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903		P.E. NO. 44135 WARREN W. SCHAEFER, P.E.	
CERTIFICATION APR 21 2004		DRAWING NO. 1234	
SHEET NO. 1 OF 3		REV.	



NOTE: ALL FLASHING MATERIAL NOT CALLED OUT WITH A SPECIFIC GAGE THICKNESS SHALL BE MIN. 24 GAGE.

Approved as complying with the
Florida Building Code
Date 04/21/2004
NOAH 03-0707-03
Miami Dade Product Control
Division
By *Warren W. Schaeffer*

DRAWN BY: K.P.S.	CHECKED BY: W.W.S.
PLOT: 1=16	DATE: 06/06/03
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE CFR-30, 36 & 42 ROOF PANEL SYSTEM	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903	
MANUFACTURER METL-SPAN I, LTD. 1497 N. KEALY LEWISVILLE, TX 75057 972-221-6656	
CERTIFICATION APR 21 2004	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1234	REV.
SHEET NO. 2 OF 3	

